

SECTION VI.—BIBLIOGRAPHY.

RECENT ADDITIONS TO THE WEATHER BUREAU LIBRARY.

C. FITZHUGH TALMAN, Professor in Charge of Library.

The following have been selected from among the titles of books recently received as representing those most likely to be useful to Weather Bureau officials in their meteorological work and studies:

British rainfall, 1916. On the distribution of rain in space and time over the British Isles during the year as recorded by more than 5,000 observers in Great Britain and Ireland and discussed with articles upon various branches of rainfall work by Hugh Robert Mill and Carle Salter. The fifty-sixth annual volume. London. 1917. 256 p. front. tables. diagrams. maps. 22 cm.

Coimbra. Observatório meteorológico.
Observações meteorológicas, magnéticas e sísmicas feitas no ano de 1916. Volume 55. Coimbra. 1917. viii, 165 p. incl. tables. 36½ cm.

Dixie, A. E.
Air navigation for flight officers. Portsmouth [Eng. etc. pref. 1917] x, 224 p. plate. illus. diagrams. 22½ cm.

Doberck [August] William.
Hygrometric tables for use with rotating dry and wet bulb thermometers. London. 1917. p. 1., 17 p. incl. tables. 15 cm.

Fuller, George Damon.
Evaporation and soil moisture in relation to the succession of plant associations. Contributions from the Hull botanical laboratory 191. illus. 3 tables. charts. 24 cm. (Reprinted . . . from the Botanical gazette, v. 58, no. 3, Sept. 1914, p. 193-231.) Literature cited, p. 233-234.

Stratification of atmospheric humidity in the forest, by G. D. Fuller, J. R. Locke, and Wade McNutt. 2 charts. 23 cm. (Reprinted from Transactions. Illinois academy of science, v. 6, 1912, p. 100-102.)

Great Britain. Meteorological office.
The observer's handbook. Approved for the use of meteorological observers by the Meteorological office, the Royal meteorological society, the Scottish meteorological society, the British rainfall organization. Annual edition, 1917. London. 1917. xxx, 7-167 p. plates, illus. tables (part. fold.). diagrams. 24½ cm. M. O. 191 (1917).

. . . Réseau mondial, 1911. Monthly and annual summaries of pressure, temperature, and precipitation at land stations, generally two for each ten-degree square of latitude and longitude. London. 1917. xv, 112p. incl. tables. 31½ cm. At head of title: British meteorological and magnetic year book. Part V. M. O. no. 207g (Tables). Bibliography of the meteorology of the globe, p. xii.

. . . Réseau mondial, 1911. Charts showing the deviation of the pressure and temperature from normal values for each month and for the year, based on observations at land stations . . . London. 1916. 21. 14 fold. charts. 31½ cm. At head of title: British meteorological and magnetic year book, 1911. Part V. M. O. no. 207g (Charts).

Hepworth, M[elville] W[illis] Campbell.
The relation between pressure, temperature, and air circulation over the South Atlantic ocean. Notes with reference to a set of monthly wind charts of the South Atlantic ocean which were prepared in the Meteorological office and were originally published by the Hydrographic department of the Admiralty, in January, 1904; 2d ed. London. 1917. 14 p. charts. 24½ cm. M. O. 177 (1917).

La Cour, D[an].
Abnorme vandstandsforhold i de Danske farvande. 1. Vandstandsforholdene den 15'-16' Januar 1916. Kjøbenhavn. 1917. 83 p. incl. tables. charts. 25½ cm. At head of title: Publikationer fra det Danske meteorologiske institut . . . Meddelelser Nr. 4.

Loveland, Lillian S.
Humidity in living rooms. How a husband and wife have made their home more comfortable and more healthful. (Photographed from the Good housekeeping magazine, v. 53, 1911, p. 674-676.) 25 cm.

Metcalf, Leonard.

American sewerage practise, by Leonard Metcalf and H. P. Eddy. New York [etc.] 1914. 3 v. plates. illus. tables. diagrams (part. fold.) 24 cm. [Chapters 6-9 discuss precipitation, storm-water flow, etc.]

Nunn, Roscoe.

William Ferrel. (Excerpted from Tennessee historical magazine, v. 3, no. 3, Sept. 1917, p. [192]-195.) 23 cm.

Panama (Republic). Direccion general de estadística.

Boletín estadístico del quinquenio de 1912 a 1916. Sección agrícola y varios. Panama. 1917. viii, 38 p. incl. tables. 30½ cm. [Meteorology, p. 3-7.]

Panama Canal. Governor.

Annual report for the fiscal year ended June 30, 1917. Washington. 1917. xi, 414 p. plates (part. fold.) tables. diagrams (part. fold.) 23 cm. [Contains report on meteorology and hydrography.]

Philippine Islands. Weather bureau.

Annual report of the Weather bureau for the year 1915. Part III. Meteorological observations made at the secondary stations during the calendar year 1915. Manila. 1916. 339 p. incl. tables. 29 cm.

Shaw, J. J.

"Milne-Shaw" seismograph. Handbook. West Bromwich, Eng. [1917] cover-title, 28p. plates. diagrams. 25½ cm.

Shaw [William] Napier.

Revolving fluid in the atmosphere. charts (part. fold.) 25½ cm. (Reprinted from the Proceedings of the Royal society, A. vol. 94, 1917, p. [34]-52.) [Abstract in this REVIEW, September, 1917, p. 454.]

U. S. Hydrographic office.

Arctic pilot. Volume 1. The coast of Russia from Voriema or Jacob River in Europe to East Cape, Bering Strait, including off-lying islands. 1917. Washington. 1917. x, 364 p. *2 fold. maps. 23½ cm. H. O. No. 137. [Climate and weather, p. 35-43.]

RECENT PAPERS BEARING ON METEOROLOGY AND SEISMOLOGY.

G. FITZHUGH TALMAN, Professor in Charge of Library.

The following titles have been selected from the contents of the periodicals and serials recently received in the Library of the Weather Bureau. The titles selected are of papers and other communications bearing on meteorology and cognate branches of science. This is not a complete index of all the journals from which it has been compiled. It shows only the articles that appear to the compiler likely to be of particular interest in connection with the work of the Weather Bureau.

Aeronautics. London. v. 12. 1917.

Thomas, G. Holt. Commercial aeronautics. p. 338-392. (May 30.) [Discusses meteorological aspects of commercial aviation.]
Montagu de Beaulieu (Lord). The world's air routes and their regulation. p. 463-472. (June 27.) [Discusses meteorological aspects of commercial aviation.]

Aeronautics. London. v. 13. November 28, 1917.

Pannell, J. R. The wind channel: its design and use. p. 414-421. [Reviews the wind tunnel experiments and apparatus of all countries.]

British rainfall. London. v. 56. 1916.

Mill, H[ugh] R[obert]. The late Sir Alexander Binnie. p. 23-25.
Fordham, Herbert George. Or an improved method of fixing rain gauges. p. 26-27.
Salter, Carle. The measurement of rainfall duration. p. 32-40.
Franklin institute. Journal. Philadelphia. v. 184. December, 1917.
Humphreys, W[illiam] J[ackson]. Physics of the air. [Continued.] p. 805-836.

- Meteorological society of Japan. Journal. Tokyo. 36th year. November, 1917.*
Okada, T. On the possibility of forecasting the approximate yield of rice crop for northern Japan. p. 91-97.
- Royal astronomical society of Canada. Journal. Toronto. v. 11. 1917.*
Steadworthy, A. Aurora borealis; display of August 21, 1917. p. 365-366. (Nov.). [One of the illustrations, Plate 16, presents a very unusual form of aurora.]
- Abbot, C[harles] G[reeley].** The sun and the weather. p. 403-416. (Dec.) [Repr. from Scientific monthly.]
- Royal meteorological society. Quarterly journal. London. v. 43. October, 1917.*
Brooks, C. E. P. The reduction of temperature observations to mean of 24 hours and the elucidation of the diurnal variation, in the continent of Africa. p. 375-388.
Stewart, C. D. Atmospheric electrical phenomena during rain. p. 359-374.
- Royal meteorological society, etc.—Continued.*
Whipple, F. J. W. Autographic records of the air-wave from the East London explosion, January 19, 1917. p. 389-400.
Mossman, R[obert] C[ockburn]. Some aspects of the cold period, December, 1916-April, 1917. p. 401-408.
Stewart, C. D. Atmospheric electricity. p. 409-431.
- Royal society of London. Proceedings. London. ser. A. v. 94. no. A656. November 5, 1917.*
Shaw, Napier. Revolving fluid in the atmosphere. p. 34-52.
- Sociedad astronómica de España y América. Revista. Barcelona. año 7. Septiembre-Octubre, 1917.*
Navarro-Neumann, Manuel M. a S. Las series de Fourier en meteorología. p. 65-67.
Selga, Miguel. Uniformidad de la temperatura en Manila. p. 71-73.